CASE GT/3-21923/A/AC 533/PCT/DIV

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF
ANNE FLISHER ET AL
DIVISIONAL OF APPLICATION NO: 09/890,129
FILED CONCURRENTLY HEREWITH
FOR: POLYMERISATION PROCESS

Group Art Unit: 1711
Examiner: S. Berman

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

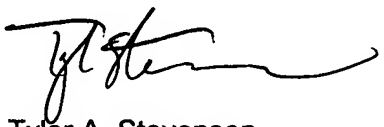
Sir:

In accordance with 37 CFR 1.56, Applicants wish to call the Examiner's attention to the references cited on the attached form PTO-1449.

DE 4123889 and its English language abstract are enclosed herewith.

The Examiner is requested to consider the foregoing information in relation to this application and indicate that each reference was considered by returning a copy of the initialed PTO 1449 form.

Respectfully submitted,



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Encl. References
PTO-1449 Form

FORM PTO-1449	Docket Number (Optional)	Application Number
INFORMATION DISCLOSURE CITATION IN AN APPLICATION	GT/3-21923/A/AC 533/DIV	
	Applicant: ANNE FLISHER ET AL.	
(Use several sheets if necessary)	Filing Date: March 2, 2004	Group Art Unit: 1711

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES	Translation NO
	4123889	3/92	Germany				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

	Derwent Abstract 92-089567/12 for DE 4123889 (1992)

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

92-089567/12 A35 D22 (A18 A25 A93 A96) SANN 07.09.90

SANYO CHEM IND LTD *DE 4123-889-A

07.09.90-JP-238514 (12.03.92) C08f-02/38 C08f-06 C08f-251 C08f-291 C08j-03/28

Water-absorbing resin prepn. - by irradiating polymer of water-soluble monomer and polysaccharide and/or crosslinking agent with UV in presence of radical scavenger C92-041254

The prepn. of water-absorbing resins (I) with reduced content of residual monomer and water-soluble components comprises irradiating (I), obtd. by polymsg. a water-soluble monomer with a polysaccharide and/or crosslinking agent, with UV-radiation in the presence of a radical scavenger in every drying or pulverising stage after polymsn..

Also claimed are (I) comprising 500 ppm or less residual monomer and 7 wt.% or less water-soluble components.

USE/ADVANTAGE

(I) contain reduced amts. of residual monomer and water-soluble components. (I) are used in prods. in contact with the human body, e.g. fluid-absorbing pads for sanitary prods. and bandages.

MORE SPECIFICALLY

The amt. of radical scavengers used is 0.001-5% of the total wt. of polymerisable monomer and crosslinking agent.

A(9-A, 10-E10, 10-G1A, 12-V3A) D(9-C4B)

EXAMPLE

196g Acrylic acid. 0.05g methylenebisacrylamide and 236g deionised water were mixed together and 168g aq. soln. contg. 48% NaOH was added gradually, keeping the temp. under 50°C, to neutralise approx. 74 mol.% of the acrylic acid. The concn. of the dissolved oxygen was reduced to 1 ppm or less by adding nitrogen. 0.05g V-50 (RTM; azo-type polymsn. initiator) was added to the soln and mixed for 1min.

The resulting soln. was poured into a steel container contg. oxygen sealed with polyethane film and polymsd. for 1 hr. in a water bath at 50°C to produce a hydrogel polymer. An aq. soln. (prepd. by dissolving 0.72g hydroquinone in 14g water) was sprayed evenly over the surface of 600g of the polymer.

The gel was placed on a conveyor belt and irradiated for 10 sec. with UV-radiation (80 W/cm). The gel was granulated and dried at 130°C in air. The dried polymer was reduced to less than 20 mesh.

The residual monomer content was 230 ppm, the water-soluble component content was 3.6% and the water absorption was 62 g/g. (9pp2223MODwgNo0/0). DE4123889-A